

CLAIMS

I claim:

1. A one-time use frangible socket, used to tighten a bolt,
5 nut and a screw type fastener with a head and threads, comprising:
an upper portion with a top;
a first aperture on the top the upper portion for
receiving a ratchet, pneumatic and hydraulic device;
a lower portion with a bottom;
10 a second aperture on the bottom of the lower portion
for gripping the bolt, nut and any screw type fastener head; and
a frangible middle portion having a plurality of
splines that connect the upper portion and the lower portion
together, which break at a specified torsion force, placed on
15 the frangible socket from the ratchet, pneumatic or hydraulic
device, which prevents the frangible socket from stripping the
threads on the bolt, nut and any screw type fastener.
2. The frangible socket according to claim 1, wherein the
20 frangible socket is made of injection-molded plastic.

3. The frangible socket according to claim 1, wherein the upper portion is conically shaped.

4. The frangible socket according to claim 1, wherein the upper portion is cylindrically shaped.

5. The frangible socket according to claim 1, wherein the frangible sockets are color-coded to accommodate different bolt, nut or any screw type fastener sizes.

6. The frangible socket according to claim 1, wherein the plurality of splines are each dimensioned and configured to break at different predetermined torsion forces.

7. The frangible socket according to claim 1, wherein the first aperture and the second aperture are in metric sizes.

8. The frangible socket according to claim 7, wherein the first aperture and the second aperture are in American sizes.

9. A one-time use frangible socket used in combination with a ratchet, pneumatic and hydraulic device, to tighten a bolt, nut and a screw type fastener with a head and threads, comprising:

an upper portion with a bottom;

5 a first aperture on the bottom of the upper portion for receiving the ratchet, pneumatic and hydraulic device;

a lower portion with a bottom;

a second aperture on the bottom of the lower portion for gripping the bolt, nut and any screw type fastener head; and

10 a frangible middle portion having a plurality of splines that connect the upper portion and the lower portion together, which break at a specified torsion force placed on the frangible socket from the ratchet, pneumatic and hydraulic device, which prevents the frangible socket from stripping the
15 threads on the bolt, nut and any screw type fastener.

10. The frangible socket according to claim 9, wherein the frangible socket is made of injection-molded plastic.

20 11. The frangible socket according to claim 9, wherein the upper portion is conically shaped.

12. The frangible socket according to claim 9, wherein the upper portion is cylindrically shaped.

13. The frangible socket according to claim 9, wherein the frangible sockets are color-coded based on accommodating different bolt, nut or any screw type fastener sizes.

14. The frangible socket according to claim 9, wherein the frangible sockets break at different predetermined torsion forces.

15. The frangible socket according to claim 9, wherein the first aperture and the second aperture are in metric sizes.

16. The frangible socket according to claim 15, wherein the first aperture and the second aperture are in American sizes.